Crowded House. All photos Allan Toft

Specifications MAC 350 Entour

Physical

Length: 377 mm (14.8 in.) including handles
Width (Base): 220 mm (8.7 in.)
Height: 454 mm (17.9 in.), head horizontal
Height: 471 mm (18.5 in.), head straight up
Weight: 16.6 kg (36.6 lbs.)

Dynamic Effects

Shutter effect: Electronic, with regular and random pulse, burst and strobe effects
Electronic dimming: 0 - 100%, choice of four dimming curves
Color wheel: 8 interchangeable dichroic filters + open, full and split colors, music trig, continuous rotation, random color
Rotating gobo wheel: 6 interchangeable gobos + open, indexing, continuous gobo rotation & scrolling, shake
Iris: Motorized, with pulse and random effects
Focus: 2 m (6.6 ft.) to infinity
Pan: 540°
Tilt: 257°
Adjustable pan/tilt and effects speed

Optics

Light source: 7 x Luminus CBT-90 (50 W) LEDs
Minimum LED lifetime: 60 000 hours (to >70% luminous output)*
**LED manufacturer's figure obtained under manufacturer's test conditions*

Control and Programming

Control options: DMX, stand-alone, synchronized (master/slave)
DMX channels: 14/17
Setting and addressing: Control panel with LED display
Macro programs: 10 pan/tilt and 10 effects macros, all with staggered start/chase feature
Macro selection: DMX or onboard control panel
Movement control options: Tracking and vector
Protocol: USITT DMX512/1990
Stand-alone memory: 100 scenes
Stand-alone and master/slave programming: Control panel with LED display
Transceiver: RS-485
Fixture software update: Serial upload via DMX link
16-bit control: Rotating gobo indexing, pan & tilt

Photometric Data

Total output: 8000 lm
Color temperature: 6500 K
CRI (color rendering index): 70
Efficiency: 55%
Efficacy: 18.6 lumens per watt

Construction

Color: Black
Housing: UV-resistant fiber-reinforced composite and die-cast aluminum
Protection rating: IP20

Installation

Mounting points: 2 pairs of 1/4-turn locks
Orientation: Any
Minimum distance to combustible materials: 200 mm (7.9 in.)
Minimum distance to illuminated surfaces: 0.5 m (1.6 ft.)

Connections

AC power input: Neutrik PowerCon
DMX data in/out: 5-pin locking XLR

Electrical

AC power: 100-240 V nominal, 50/60 Hz
Power supply unit: Auto-ranging electronic switch mode
Main fuses: 10 AT (slow blow) x 2
Standby power: Max. 49 W (idle mode, dimmed to zero)

Thermal

Cooling: Forced air (temperature-regulated, low noise, user-definable levels)
Maximum ambient temperature (Ta max.): 40° C (104° F)
Maximum surface temperature, steady state, Ta=40° C (104° F): 70° C (158° F)
Total heat dissipation (calculated, +/- 10%): 1580 BTU/hr.

Approvals

EU safety: EN 60598-2-17, EN 62471
EU EMC: EN 55103-1, EN 55103-2, EN 55015, EN 61547
US safety (pending): UL 1573
US EMC: FCC Part 15 Class A
Canadian safety (pending): CAN/CSA E 598-2-17
Canadian EMC: ICES-003 Class A
Australia/NZ: C-TICK N4241

Included Items

Two Omega clamp attachment brackets with 1/4-turn fasteners: P/N 91602001
Neutrik PowerCon NAC3FCA male input connector: P/N 05342804
Two 10 AT main fuses (installed): P/N 05021029
User manual

Accessories

3-pin male XLR to 5-pin female XLR adaptor: P/N 11820004
5-pin male XLR to 3-pin female XLR adaptor: P/N 11820005
1 m (3.3 ft.) DMX cable, STP, 3-pin male - 3-pin female XLR, IEC/UL-CL: P/N 11820012
2 m (6.6 ft.) DMX cable, STP, 3-pin male - 3-pin female XLR, IEC/UL-CL: P/N 11820011
5 m (16.4 ft.) DMX cable, STP, 3-pin male - 3-pin female XLR, IEC/UL-CL: P/N 11820008
10 m (32.8 ft.) DMX cable, STP, 3-pin male - 3-pin female XLR, IEC/UL-CL: P/N 11820007
20 m (65.6 ft.) DMX cable, STP, 3-pin male - 3-pin female XLR, IEC/UL-CL: P/N 11820009
100 m (328.1 ft.) DMX cable, STP, 3-pin male - 3-pin female XLR, IEC/UL-CL: P/N 11820010
G-clamp: P/N 91602003
Half-coupler clamp: P/N 91602005
Quick trigger clamp: P/N 91602007
T-shaped omega bracket with quarter-turn fasteners: P/N 91602008
Omega bracket: P/N 91602001
Safety wire, universal, safe working load 50 kg (110.2 lbs.): P/N 91604003
Four-unit flightcase for 4 x MAC 350: P/N 91510160

Ordering Information

MAC 350 Entour, black, in cardboard box: P/N 90231400

Specifications are subject to change without notice. For the latest product specifications, see www.martin.com

Martin Professional Olof Palmes Allé 18 • 8200 Aarhus N • Denmark • Phone: +45 87 40 00 00 • Fax: +45 87 40 00 10 • www.martin.com

About Martin Professional
As a world leader in the creation of dynamic lighting solutions for the entertainment, architectural, and commercial sectors, Martin lighting and video systems are renowned the world over. Martin also offers a range of advanced lighting controllers and media servers, as well as a complete line of smoke machines as a complement to intelligent lighting. Martin operates the industry's most complete and capable distributor network with local partners in nearly 100 countries. Founded in 1987 and based in Aarhus, Denmark, Martin is the lighting division of global infotainment and audio company HARMAN International Industries.

For more information please visit

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MAC 350 Entour™

Martin® by HARMAN

Sets new standards for a hard-edge LED fixture

The MAC 350 Entour is the most powerful and energy-efficient LED-based profile moving head fixture on the market to date. It marks a radical advancement in light output and quality compared to other LED profiles on the market.

The direct result of a technology grant for the development of new LED technologies, the MAC 350 Entour surpasses what has previously been possible in terms of brightness, efficiency and compactness in a hard-edge LED fixture.

The ideal LED profile for all manner of touring and event applications, the MAC 350 Entour is also highly suited to permanent installation in a wide variety of venues.

The first real alternative to HID-based profile fixtures

As the brightest LED profile on the market to date, light output is exceptional. The MAC 350 Entour delivers 8,000 lumens of output from seven extremely efficient 50 W white LEDs, an output greater than many larger 250/300 watt fixtures and four times more than comparable fixtures.

Energy saving

Yet the MAC 350 Entour is an energy saving fixture as well. Unlike HID fixtures, it saves on energy by using very little power when the LED sources are not in use and only draws power at the level required. Power consumption is only 450 W with all LEDs at full and only 18 W when idle.

Interchangeable colors, fresh designs

The MAC 350 Entour houses 8 easily interchangeable dichroic colors with split color effects and continuous rotation. Color filters are easy to change via an easy-access lid.

Six continuously rotating and indexable gobos, all new designs, are easy to change via an easy-access lid. Auto or music-triggered shake effects are also possible.

Superior optics

A superior optical system and variable focus produce crisp images or unfocused background effects with no color artifacts. Optical quality is superior to other products in its class.

Beam angle is 25° for a larger projection area, making the fixture ideal for a variety of installation settings like bars, lounges, restaurants and shops. And unlike most fixtures of its size, the beam can be quickly and accurately resized via a motorized iris for longer throws.

Image quality is sharp and clean with a deep field of focus that remains sharp when projected at steep angles.

Better color rendering

The 350 Entour produces an enhanced color spectrum that produces more natural skin tones than many discharge fixtures.

Outstanding effects are possible when combining gobos, focus and full or split colors. The color wheel offers 8 interchangeable color filters plus open.

Efficiency – eliminates hassles, lowers costs

The LED light sources in the MAC 350 Entour have a rated life of 25,000 hours, eliminating any lamp replacement costs for a lower cost of ownership. With better light output and color maintenance over time, the MAC 350 Entour delivers a more consistent look across fixtures.

The MAC 350 Entour offers other benefits of LED technology as well like greater reliability, less maintenance and low energy consumption for lower costs over the lifetime of the fixture.

An efficient fan cooling system draws no dirt or dust into the optics, which along with a quick maintenance and easy-access design keeps service intervals to a minimum for lower service costs.

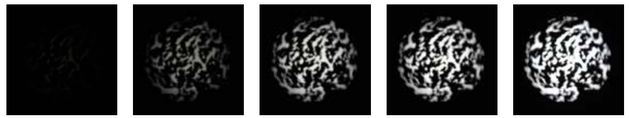
Uniform dimming, fast strobe

The MAC 350 Entour's advanced LED technology allows it to dim electronically from 0-100% for perfectly uniform fades with insignificant color shifts.

Instant LED response means there is no limit to the shutter speed for ultra-crisp shutter and fast strobe effects.

Flicker free

The fixture operates at a very high LED refresh rate, making it completely flicker free for on-camera productions.



Electronic dimming is both uniform and smooth with user-selectable dimmer curves available.

Quiet

For noise sensitive environments, the fixture can run in a virtually silent mode if full light intensity is not required.

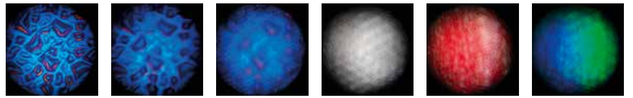
Compact, light, modular

The MAC 350 Entour is extremely compact and lightweight with fast pan and tilt movement. An extremely durable and modular construction makes service and maintenance an easier process, saving on costs and total cost of ownership.

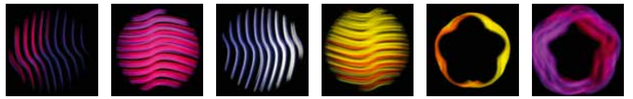
Control options

Industry standard DMX-512 controllable, the MAC 350 Entour also operates in stand-alone mode (with master/slave) without the need for a lighting controller. For even greater maintenance ease - and savings in time and money - the MAC 350 Entour will support RDM feedback protocol as a future firmware release.

The MAC 350 Entour automatically adjusts for different voltages via an auto-sensing SMPS system for full world-wide compatibility.



A motorized focus gives sharp projections or out-of-focus effects.



Rotational and indexable glass and metal gobos provide great beam and projection effects.